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wrong, or that the stars of the Milky Way are bluer or whiter than other stars. But Professor PICKERING, of Cambridge, America, has lately made a complete photographic review of the heavens, and by placing a prism in front of the telescope he has made pictures of the whole sky like this. (Here two examples of the plates of Pickering's Spectroscopic *Durchmusterung* were exhibited on the screen.) He has discussed the various types of the spectra of the brighter stars, as thus revealed, according to their distribution in the sky. He finds thus that the stars of the *Sirius* type occur chiefly in the Milky Way, whilst stars of other types are fairly divided over the sky.

"Now stars of the *Sirius* type are very white stars, very rich relative to other stars in the rays which act most strongly on a photographic plate. Here then is the explanation of the results of our photographic star-charting, and of the discordance between the photographic and visual magnitudes in the Milky Way.

"The results of the Cape charting further show that it is not alone to the brighter stars that this discordance extends, but it extends also, though in a rather less degree, to the fainter stars of the Milky Way. Therefore we may come to the very remarkable conclusion that the Milky Way is a thing apart; and that it has been developed perhaps in a different manner, or more probably at a different and probably later epoch from the rest of the sidereal universe."

## DR. RUTHERFURD'S NEGATIVES OF THE MOON, ETC.

In 1884 Dr. RUTHERFURD presented to the Observatory of Columbia College his 13-inch equatorial (with its photographic corrector) as well as other important instruments belonging to his private observatory. Subsequently he gave his famous collection of original negatives taken in the years 1858–1877 to the same institution.*

Professor REES has been kind enough to have positive copies on glass made from the best of these negatives and they have been presented by Columbia College to the Lick Observatory, where they will be of the highest value for comparison with other photographs. A collection of the best original negatives of the moon taken at Mount Hamilton, has also been deposited at Columbia College. A list of the negatives of Dr. RUTHERFURD now in the Lick Observatory collection follows. Mrs. Anna Palmer Draper has also signified her intention of presenting to us a set of copies of negatives of the moon taken by the late Dr. Henry Draper.

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* A complete list of these is given in the *Annals* of the New York Academy of Sciences (1891) by Professor J. K. REES, Director of the Columbia College Observatory.

For each of these most welcome gifts the cordial thanks of the Lick Observatory are returned. E. S. H.

## List of the Moon-Negatives made by Dr. Lewis M. Rutherfurd and presented to the Lick Observatory by Columbia College.

| Date of the Negative. | Moon's Age (approximate). | Remarks. |
|---|---|---|
| 1859, March 9: | 5 days | |
| 1859, March 10: | 6 " | |
| 1864, December 4: | 6 " | |
| 1862, January 7: | 7 " | Enlarged about two diameters. |
| 1865, February 2: | 7 " | |
| 1870, April 8: | 7 " | In duplicate. |
| 1862, April 6: | 7 " | Enlarged about two diameters. |
| 1870, April 9: | 8 " | In duplicate. |
| 1865, March 6: | 9 " | Enlarged about two diameters. |
| 1862, March 9: | 9 " | Enlarged about two diameters. |
| 1870, July 8: | 10 " | In duplicate. |
| 1870, August 7: | 10 " | In duplicate. |
| 1865, January 8: | 11 " | |
| 1865, February 6: | 11 " | Enlarged about two diameters. |
| 1870, April 12: | 11 " | In duplicate. |
| 1870, July 10: | 12 " | In duplicate. |
| 1865, January 11: | 14 " | |
| 1870, May 14: | 15 " | |
| 1865, January 12: | 15 " | Enlarged about two diameters. |
| 1864, November 14: | 16 " | |
| 1870, March 18: | 16 " | |
| 1870, August 13: | 16 " | In duplicate. |
| 1870, August 14: | 17 " | In duplicate. |
| 1870, September 13: | 18 " | In duplicate. |
| 1870, September 14: | 19 " | In duplicate. |
| 1870, September 15: | 20 " | In duplicate. |
| 1870, August 17: | 20 " | In duplicate. |
| 1870, August 19: | 22 " | In duplicate. |
| 1870, August 20: | 23 " | In duplicate. |
| 1870, September 19: | 24 " | In duplicate. |